

SSB Xn Series

DRILLING MACHINE

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KNUTH Machine Tools is a leading supplier of conventional and CNC machine tools. KNUTH is a global company with a presence in more than 30 countries.

In an area of 16.000 m² at our headquarters in Wasbek, Germany, we keep a complete selection of machines for all areas of machining and metal working ready for demos and quick delivery.



Open for you 24/7: Take a virtual tour through our warehouses, spare parts warehouses and workshop with Google Street View.

Quality Assurance for your KNUTH Machine

Quality by KNUTH Certified Quality Assurance

More than 1400 machines are shipped annually from our headquarters in Wasbek, Germany. Every machine has to pass a series of tests in our 5-level quality assurance process that covers everything from incoming quality control to alignment testing, and from functional, technical and geometric accuracy tests to the final acceptance test. These tests are conducted by our master technicians who use a dedicated customized data processing system for this purpose.

An ISO 9001 certified quality management system ensures continuous control and improvement of all quality-relevant activities. Design, development and precision of each individual machine are documented exactly in detailed inspection protocols and acceptance test logs.

All-Encompassing KNUTH Service Worldwide Reliability

Trust our global qualified staff take care of everything from installation and maintenance to repairs and upgrades quickly and professionally.



The Process of Making
a KNUTH Machine Tool



KNUTH Machines in Action

Visit our YouTube page to experience machines in action before the real-life test on site

Subscribe to our YouTube channel - Go to KNUTH Machine Tools!

Reliable service from a single source

We provide highly qualified technicians and engineers all over the world to ensure reliable service from one central source. And our global supplier network ensures prompt availability of replacement parts and consumables at a local level.



CONSULTATION

- Sample work pieces
- Machine demos



START-UP

- Installation / Commissioning
- On-site Instruction



TRAINING

- User Training
- Maintenance Training



PREVENTIVE MAINTENANCE

- Inspection
- Maintenance



REPAIR

- Machine Repair
- Spare Parts



MACHINE WARRANTY

- Protect Insurance

KNUTH Technical Service Help Desk

KNUTH Parts Service

Our Service Help Desk is available 24/7 online at: knuth.de/servicedesk

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TILTING TABLE FOR DRILLING AT AN ANGLE

AUTOMATIC DRILLING FEED

WORK TABLE MULTIPLE AXES OF ROTATION

SSB 32 Xn

TILTING HEADSTOCK FOR DRILLING AT AN ANGLE TALL PARTS

DIGITAL DISPLAY OF THE SPINDLE SPEED

SSB Xn Column Drilling Machines

Models
SSB 32 Xn
SSB 40 Xn

- The drilling machines of the SSB Xn series are the right choice for every workshop, both for repair and production.
- These universal drilling machines have a thick-walled column, powerful drives and robust gearboxes for spindle and feed. The large work area and the large universal clamping tables allow easy handling and processing of small workpieces, but also large and heavy parts and assemblies.
- With its proven reliability, this series has been one of our best-selling solutions for more than 20 years.

Main Features

Machine construction



- These universal drilling machines are characterized by a heavy cast iron construction with thick wall columns. This provides the machines with a high level of rigidity and stability, which is essential for accurate drilling



- The base is wide, with a large clamping area special for mounting tall workpieces. This makes them ideal for heavy-duty drilling applications, such as drilling holes in large metal plates or structural beams.

Machine construction



- The table's ability to swivel $\pm 45^\circ$ opens up the possibility of drilling angled holes with ease.



- The table is equipped with a manual height adjustment mechanism and a rotating base, which allows it to be adjusted to the desired height and rotated to accommodate tall workpieces.

Main Features

Headstock



- The main spindle is driven by a two-stage motor that is optimized for high power and torque.
- All transmission parts are made of a special material that can withstand high levels of wear and tear.



- The automatic feed can be turned on and off with a button on the handle. It is controlled by an electromagnetic clutch, which allows for precise control of the feed rate.
- These models have four different feed rates available.



- The long quill travel can be manually adjusted using the depth stop. The automatic feed switches off when reaching the selected drilling depth.



- This series integrated threading function. Once activated, the machine changes automatically the direction of rotation of the spindle when the selected depth is reached.

Main Features



- The spindle is equipped with tool disassembly and balancing device, which allow an easy tool removal and changing.



- The height-adjustable spindle guard protects the operator from chips and coolant during operation.
- The guard is interlocked with the spindle, so the spindle will stop if the guard is opened.

Cooling system



- The cooling system provides coolant to both the tool and the workpiece during machining. The flow rate of the coolant is adjusted by a ball valve.



- The table and machine base are specially designed to filter and return the coolant to the tank located at the back of the machine base.

Main Features

Operation



- These models are designed in a classic style, with the most essential controls and features located on the front of the headstock for easy access.



- All buttons and levers are intuitive and clearly positioned, offering a convenient and ergonomic operation.



- All models are supplied with a comprehensive set of drilling accessories

Specific Features

SSB 32 Xn



- The SSB 32 Xn model's tilting headstock makes it possible to drill angled holes in large workpieces that are mounted directly to the table.



- The headstock has a vertical adjustment range, so it can be raised or lowered to drill holes at different heights. This is useful for drilling large parts, as it allows the operator to drill holes without having to move the workpiece.



- This model features a digital display of the spindle speed, which allows the operator to easily monitor and adjust the speed of the drill bit.



- Due to the movement of the headstock, the coolant system is outside the machine frame and its height can be easily adjusted.

Technical Data

Technical Data		SSB 32 Xn	SSB 40 Xn
Working Area			
Drilling capacity	mm	32	40
Tapping capacity, steel		M20	M24
Table set up area	mm	500 x 420	540 x 440
Manual table travel	mm	490	550
Quill stroke	mm	160	190
Travel swivel range (max.)		± 45°	± 45°
Spindle nose-to-table surface distance	mm	630	610
Spindle nose-to-foor distance	mm	1185	1195
Throat	mm	320	340
Column diameter	mm	120	140
Head swivel range		± 50°	-
Table load capacity	kg	100	150
Headstock			
Spindle mount		MK4	MK4
Speed range	1/min	125 - 3030	75-2020
Feed			
Quill feeds	mm/R	0,1; 0,2; 0,3	0,12; 0,24; 0,4
Drive Capacity			
Motor rating main drive	kW	1,2	1,5
Measures and Weights			
Length	m	0,84	0,95
Width	m	0,5	0,61
Height	m	1,96	2,23
Weight	kg	540	550

* Due to the process of constant improvement, products and product's data can change without notice.

Standard Equipment

Digital Display



- Digital display for spindle speed
- Only for SSB 32 Xn

Automatic drilling feed



- Automatic drill feeds controlled by electromagnetic clutch.

Threading function



- In this mode, when the selected thread depth is reached, the machine automatically changes the direction of rotation of the main spindle.

Accessories for drilling



- Contains:
- Drill chuck with key B16, drift bolt
- Reduction sleeve: MT4/MT3,
- Reduction sleeve: MT4/MT2,
- Reduction sleeve: MT3/MT1

Coolant system



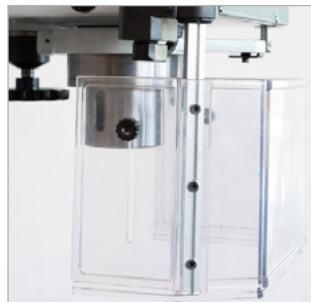
- Height adjustable
- Only for SSB 32 Xn

Coolant system



- Integrated in machine frame
- Only for SSB 40 Xn

Spindle guard



- With interlock system
- Adjustable height

LED Work Light



- Very rugged lamp
- Protected against warter, oil and dust.

Operator instructions



- Installation instructions
- Operation manual
- Electrical diagrams
- Spare parts lists



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Subject to change without notice. Errors and omissions excepted.

